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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,191	05/06/2004	Nicola M. Funnell	1578,612 (11766-US-PAT)	7248
44208	7590	11/12/2009	EXAMINER	
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			2618	
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			11/12/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/840,191	FUNNELL ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	BOBBAK SAFAIPOUR	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 23 July 2009.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 33-65 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 33-65 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ .  | 6) <input type="checkbox"/> Other: _____ .                        |

## **DETAILED ACTION**

This Action is in response to Applicant's response filed on 07/23/2009. Claims 33-65 are still pending in the present application. **This action is made FINAL.**

### ***Response to Arguments***

Applicant essentially argues that the 3GPP document fails to disclose use of a candidate set of cells in which at least one cell is not a cell supporting the existing connected mode state. Claim 33, for instance, includes recitation of identifying a set of candidate cells wherein at least one of the set is a cell which is not currently supporting the connected mode state. Independent claims 42, 51, and 59 each include analogous recitations.

The Examiner respectfully disagrees. The 3GPP document clearly discloses that when returning to idle mode from connected mode, the UE shall select a suitable cell to camp on. Candidate cells (the Examiner is reading "candidate cells" as all of the cells, not just cells in the connected mode state) for this selection are the cell(s) used immediately before leaving connected mode. (section 5.2.7.1) The Examiner respectfully argues that when the 3GPP document discloses when no suitable cell is found (section 5.2.7.1), this clearly explains and shows that if at least one suitable cell is not found, then at least one of the cells of the candidate cells is a cell which does not support the connect mode state.

The simple fact remains that the claims only broadly recite a candidate set of cells in which at least one cell is not a cell supporting the existing connected mode state. It has been shown that a cell which does not support the connect mode state is taught in 3GPP document. If

the Applicant intends to differentiate between the instant application and the applied reference, then such differences should be made explicit in the claims.

As a result, the argued features are written such that they read upon the cited references; therefore, the previous rejection still applies.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 33-36, 40-45, and 49-50** are rejected under 35 U.S.C. 102(b) as being anticipated by **3GPP TS 25.304 V4.50 (2002-06); UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode (hereinafter 3GPP)**.

Consider **claim 33**, 3GPP discloses a method to select a cell in a mobile communications equipment (MCE) when transitioning from a connected mode state to an idle mode state, the MCE configurable for use in a cellular network, the method comprising:

beginning state transition activity, the MCE currently in the connected mode state (5.2.7.1: read as Cell Selection when leaving connected mode);  
identifying a candidate cell set, the candidate cell set members corresponding to UMTS-based (read as UTRA case) candidate cells, wherein at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state (5.2.7.1: read as candidate cells for this selection are the cell(s) used immediately before leaving connected mode), and

selecting a candidate cell from the identified set of candidate cells (5.2.7.1: read as selection of cells);

transitioning to an idle mode state (5.2.7.1: read as when returning to idle mode)

Consider **claim 42**, 3GPP discloses a mobile communications equipment (MCE) configured for use in a cellular network, comprising: a processor and operating environment configured to run software processes, the software processes configured to enable the MCE to transition from a connected mode state to an idle mode state (5.2.7.1: read as when returning to idle mode), and to determine a set of UMTS-based (read as UTRA case) candidate cells, wherein at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state (5.2.7.1: read as candidate cells for this selection are the cell(s) used immediately before leaving connected mode), and further configured to select a candidate cell from the identified set of candidate cells (5.2.7.1: read as selection of cells) and to use the selected member when transitioning to the idle mode state (5.2.7.1: read as when returning to idle mode).

Consider **claims 34 and 43**, and **as applied to claims 33 and 42 above, respectively**, 3GPP discloses the claimed invention wherein said at least one of the candidate cells which is not currently supporting the connected mode state is a cell identified to the MCE by a network. (5.2.7.1: read as UE shall select a suitable cell to camp on)

Consider **claims 35 and 44** and **as applied to claims 33 and 42 above, respectively**, 3GPP discloses the claimed invention wherein said at least one of the candidate cells which is

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not currently supporting the connected mode state is a cell neighboring a cell supporting the connected mode state. (5.2.7.1: read as UE shall select a suitable cell to camp on)

Consider **claims 36 and 45 and as applied to claims 33 and 42 above, respectively**,  
3GPP discloses the claimed invention wherein storing information relating to at least one candidate cell which is not currently supporting the connected mode state arising from past data gathering by the MCE. (5.2.7.1: read as Stored information cell selection procedure)

Consider **claims 40 and 49, and as applied to claims 33 and 42 above, respectively**,  
3GPP discloses the claimed invention wherein the identified candidate cell set comprises active cell(s) used to support the connected mode state. (3GPP: 5.2.7.1)

Consider **claims 41 and 50, and as applied to claims 33 and 42 above, respectively**,  
3GPP discloses the claimed invention wherein the identified candidate cell set comprises the serving cell used to support the connected mode state. (3GPP: 5.2.7.1)

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**Claims 37-38 and 46-47** are rejected under 35 U.S.C. 103(a) as being unpatentable over **3GPP TS 25.304 V4.50 (2002-06); UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode (hereinafter 3GPP)** in view of **Czaja et al. (US 7,006,828 B1; hereinafter Czaja).**

Consider **claim 37**, and as applied to **claim 36 above**, 3GPP discloses the claimed invention except for wherein said stored information comprises power measurement data.

In related art, Czaja discloses stored information comprises power measurement data. (col 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communicates with a different base station(s).)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of 3GPP to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

Consider **claim 38**, and **as applied to claim 37 above**, 3GPP, as modified by Czaja, discloses the claimed invention wherein storing information comprising power measurements with respect to a plurality of candidate cells of the identified candidate cell set, the information gathered previous to the beginning state transition activity; and selecting the selected candidate cell based at least in part on said power measurements. (Czaja: col 3, lines 2-25)

Consider **claim 46**, and **as applied to claim 45 above**, 3GPP discloses the claimed invention except for wherein said stored information comprises power measurement data.

In related art, Czaja discloses stored information comprises power measurement data. (col 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communicates with a different base station(s).)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of 3GPP to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

Consider **claim 47**, and **as applied to claim 46 above**, 3GPP, as modified by Czaja, discloses the claimed invention wherein storing information comprising power measurements with respect to a plurality of candidate cells of the identified candidate cell set, the information

gathered previous to the beginning state transition activity; and selecting the selected candidate cell based at least in part on said power measurements. (Czaja: col 3, lines 2-25)

**Claims 39, 48, 51-54, 57-62, and 64-65** are rejected under 35 U.S.C. 103(a) as being unpatentable over **3GPP TS 25.304 V4.50 (2002-06); UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode (hereinafter 3GPP).**

Consider **claim 51**, 3GPP discloses a method to select a cell in a mobile communications equipment (MCE) when transitioning from a first connected mode state to a second connected mode state, the MCE configurable for use in a cellular network, the method comprising:

beginning state transition activity, the MCE currently in the first connected mode state (5.2.7.1: read as Cell Selection when leaving connected mode);

identifying a candidate cell set, the candidate cell set members corresponding to UMTS-based (read as UTRA case) candidate cells, wherein at least one of the set of candidate cells is a cell which is not currently supporting the first connected mode state (5.2.7.1: read as candidate cells for this selection are the cell(s) used immediately before leaving connected mode), and

selecting a candidate cell from the identified set of candidate cells (5.2.7.1: read as selection of cells);

transitioning to the second connected mode state using the selected candidate cell (5.2.7.1: read as when returning to idle mode)

3GPP fails to specifically disclose the first and second mode states are, each, one of, Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH.

In related art, 3GPP discloses where the connected mode state comprises one of Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH. (3GPP 8.2; SCCPCH selection when entering Connected Mode)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of 3GPP 8.2 into the teachings of 3GPP 5.2.7.1 in order to enter the connected mode from idle mode.

Consider **claim 59**, 3GPP discloses a mobile communications equipment (MCE) configured for use in a cellular network, comprising: a processor and operating environment configured to run software processes, the software processes configured to enable the MCE to transition from a connected mode state to an idle mode state (5.2.7.1: read as when returning to idle mode), and to determine a set of UMTS-based (read as UTRA case) candidate cells, wherein at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state (5.2.7.1: read as candidate cells for this selection are the cell(s) used immediately before leaving connected mode), and further configured to select a candidate cell from the identified set of candidate cells (5.2.7.1: read as selection of cells) and to use the selected member when transitioning to the idle mode state (5.2.7.1: read as when returning to idle mode).

3GPP fails to specifically disclose the first and second mode states are, each, one of, Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH.

In related art, 3GPP discloses where the connected mode state comprises one of Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH. (3GPP 8.2; SCCPCH selection when entering Connected Mode)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of 3GPP 8.2 into the teachings of 3GPP 5.2.7.1 in order to enter the connected mode from idle mode.

Consider **claim 39**, and **as applied to claim 33 above**, 3GPP section 5.2.7.1 discloses the claimed invention except for where the connected mode state comprises one of Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH.

In related art, 3GPP discloses where the connected mode state comprises one of Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH. (3GPP 8.2; SCCPCH selection when entering Connected Mode)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of 3GPP 8.2 into the teachings of 3GPP 5.2.7.1 in order to enter the connected mode from idle mode.

Consider **claim 48**, and **as applied to claim 42 above**, 3GPP section 5.2.7.1 discloses the claimed invention except for where the connected mode state comprises one of Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH.

In related art, 3GPP discloses where the connected mode state comprises one of Cell\_DCH, Cell\_FACH, Cell\_PCH, and URA\_PCH. (3GPP 8.2; SCCPCH selection when entering Connected Mode)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of 3GPP 8.2 into the teachings of 3GPP 5.2.7.1 in order to enter the connected mode from idle mode.

Consider **claims 52 and 60**, and **as applied to claim 51 and 59 above, respectively**, 3GPP discloses the claimed invention wherein said at least one of the candidate cells which is not currently supporting the connected mode state is a cell identified to the MCE by a network.  
(5.2.7.1: read as UE shall select a suitable cell to camp on)

Consider **claims 53 and 61**, and **as applied to claim 51 and 59 above, respectively**, 3GPP discloses the claimed invention wherein said at least one of the candidate cells which is not currently supporting the connected mode state is a cell neighboring a cell supporting the connected mode state. (5.2.7.1: read as UE shall select a suitable cell to camp on)

Consider **claim 54**, and **as applied to claim 51 above**, 3GPP discloses the claimed invention wherein storing information relating to at least one candidate cell which is not currently supporting the connected mode state arising from past data gathering by the MCE.  
(5.2.7.1: read as Stored information cell selection procedure)

Consider **claim 57**, and **as applied to claim 51**, 3GPP discloses the claimed invention wherein the identified candidate cell set comprises active cell(s) used to support the connected

mode state. (3GPP: 5.2.7.1)

Consider **claim 58**, and **as applied to claim 51**, 3GPP discloses the claimed invention wherein the identified candidate cell set comprises the serving cell used to support the connected mode state. (3GPP: 5.2.7.1)

Consider **claim 62** and **as applied to claim 59 above** 3GPP discloses the claimed invention wherein storing information relating to at least one candidate cell which is not currently supporting the connected mode state arising from past data gathering by the MCE. (5.2.7.1: read as Stored information cell selection procedure)

Consider **claim 64**, and **as applied to claim 59 above**, 3GPP discloses the claimed invention wherein the identified candidate cell set comprises active cell(s) used to support the connected mode state. (3GPP: 5.2.7.1)

Consider **claim 65**, and **as applied to claim 59 above**, 3GPP discloses the claimed invention wherein the identified candidate cell set comprises the serving cell used to support the connected mode state. (3GPP: 5.2.7.1)

**Claims 55-56 and 63** are rejected under 35 U.S.C. 103(a) as being unpatentable over **3GPP TS 25.304 V4.50 (2002-06); UE Procedures in Idle Mode and Procedures for Cell**

**Reselection in Connected Mode (hereinafter 3GPP) section 5.2.7.1 in view of 3GPP TS 25.304 V4.50 (2002-06); UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode (hereinafter 3GPP) section 8.2 and in further view of Czaja et al. (US 7,006,828 B1; hereinafter Czaja).**

Consider **claim 55**, and **as applied to claim 54 above**, 3GPP discloses the claimed invention except for wherein said stored information comprises power measurement data.

In related art, Czaja discloses stored information comprises power measurement data. (col 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communicates with a different base station(s).)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of 3GPP to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

Consider **claim 56**, and **as applied to claim 55 above**, 3GPP, as modified by Czaja, discloses the claimed invention wherein storing information comprising power measurements with respect to a plurality of candidate cells of the identified candidate cell set, the information gathered previous to the beginning state transition activity; and selecting the selected candidate cell based at least in part on said power measurements. (Czaja: col 3, lines 2-25)

Consider **claim 63**, and **as applied to claim 62 above**, 3GPP discloses the claimed invention except for wherein storing information comprising power measurements with respect to a plurality of candidate cells of the identified candidate cell set, the information gathered previous to the beginning state transition activity; and selecting the selected candidate cell based at least in part on said power measurements.

In related art, Czaja discloses stored information comprises power measurement data. (col 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communicates with a different base station(s).)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of 3GPP to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bobbak Safaipour whose telephone number is (571) 270-1092. The Examiner can normally be reached on Monday-Friday from 9:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

/Bobbak Safaipour/  
Examiner, Art Unit 2618

November 4, 2009

/Matthew D. Anderson/  
Supervisory Patent Examiner, Art Unit 2618